



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :
Phuong V. Luu et al. : Examiner: UNKNOWN
U.S. Serial No. 10/702,414 : Group Art Unit: 1731
Filed November 6, 2003 :
Docket No. 2376 (GP-01-24) :
For: ABSORBENT SHEET EXHIBITING :
RESISTANCE TO MOISTURE :
PENETRATION :

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

Sir:

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

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- This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.311, whichever occurs first.
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 - (3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97 (c) is authorized.

U.S. Patents

1. United States Patent No. 1,682,346, issued August 28, 1928, entitled "Paper Fabric", of *Lorenz*;
2. United States Patent No. 3,432,936, issued March 18, 1969, entitled "Transpiration Drying and Embossing of Wet Paper Webs", of *Cole et al.*;
3. United States Patent No. 3,546,716, issued December 15, 1970, entitled "Disposable Bedpan Liner", of *Laumann*;
4. United States Patent No. 3,607,348, issued September 21, 1971, entitled "Twice-Coated Cellulosic-Fiber Structure and Its Manufacture", of *Wray et al.*;
5. United States Patent No. 3,612,054, issued October 12, 1971, entitled "Sanitary Napkin", of *Matsuda et al.*;
6. United States Patent No. 3,654,064, issued April 4, 1972, entitled "Water-Distintegratable Sheet Material", of *Laumann*;
7. United States Patent No. 3,994,771, issued November 30, 1972, entitled "Process for Forming a Layered Paper Web Having Improved Bulk, Tactile Impression and Absorbency and Paper Thereof", of *Morgan et al.*;
8. United States Patent No. 4,102,737, issued July 25, 1978, entitled "Process and Apparatus for Forming a Paper Web Having Improved Bulk and Absorptive Capacity", of *Morton*;
9. United States Patent No. 4,117,199, issued September 26, 1978, entitled "Process for Producing Moisture and Water-Proof Paper", of *Gotoh et al.*;
10. United States Patent No. 4,349,610, issued September 14, 1982, entitled "Method for Waterproofing Paper", of *Parker*;
11. United States Patent No. 4,468,254, issued August 28, 1984, entitled "Wax Emulsion", of *Yokoyama et al.*;
12. United States Patent No. 4,529,480, issued July 16, 1985, entitled "Tissue Paper", of *Trokhan*;
13. United States Patent No. 4,543,156, issued September 24, 1985, entitled "Method for Manufacture of a Non-Woven Fibrous Web", of *Cheshire et al.*;
14. United States Patent No. 4,601,938, issued July 22, 1986, entitled "Article Suitable for Wiping Surfaces", of *Deacon et al.*;

15. United States Patent No. 4,786,367, issued November 22, 1988, entitled "Chemically Treated Paper Products – Towel and Tissue", of *Bogart et al.*;
16. United States Patent No. 4,789,564, issued December 6, 1988, entitled "Hydridoaminosilane Treatment for Rendering Surfaces Water-Repellent", of *Kanner et al.*;
17. United States Patent No. 4,816,320, issued March 28, 1989, entitled "Toilet Tissue and Facial Tissue" of *St. Cyr*;
18. United States Patent No. 4,950,545, issued August 21, 1990, entitled "Multifunctional Facial Tissue" of *Walter et al.*;
19. United States Patent No. 4,987,632, issued January 29, 1991, entitled "Wiping Article", of *Rowe et al.*;
20. United States Patent No. 5,227,242, issued July 13, 1993, entitled "Multifunctional Facial Tissue" of *Walter et al.*;
21. United States Patent No. 5,399,366, issued March 21, 1995, entitled "Perforated Package of a Composite Integral Sheet Material", of *Geddes et al.*;
22. United States Patent No. 5,431,840, issued July 11, 1995, entitled "Process for the Production of Cleaning and Care Preparations Containing APG Emulsifier", of *Soldanski et al.*;
23. United States Patent No. 5,449,551, issued September 12, 1995, entitled "Highly Water Absorbent Fibrous Web and a Process for Producing The Same", of *Taniguchi*;
24. United States Patent No. 5,510,002, issued April 23, 1996, entitled "Method for Increasing the Internal Bulk of Wet-Pressed Tissue", of *Hermans et al.*;
25. United States Patent No. 5,552,187, issued September 3, 1996, entitled "Coated Fibrous Mat-Faced Gypsum Board", of *Green et al.*;
26. United States Patent No. 5,560,945, issued October 1, 1996, entitled "Perforated Package of a Composite Integral Sheet Material", of *Geddes et al.*;
27. United States Patent No. 5,585,129, issued December 17, 1996, entitled "Process of Using a Perforated Package of a Composite Integral Material", of *Geddes et al.*;
28. United States Patent No. 5,601,871, issued February 11, 1997, entitled "Soft Treated Uncreped Throughdried Tissue", of *Krzysik et al.*;
29. United States Patent No. 5,609,901, issued March 11, 1997, entitled "Method of Using a Perforated Package", of *Geddes et al.*;

30. United States Patent No. 5,614,293, issued March 25, 1997, entitled "Soft Treated Uncreped Throughdried Tissue", of *Krzysik et al.*;
31. United States Patent No. 5,650,218, issued July 22, 1997, entitled "Soft Treated Tissue", of *Krzysik et al.*;
32. United States Patent No. 5,658,639, issued August 19, 1997, entitled "Method for Selectively Aperturing a Nonwoven Web Exhibiting Surface Energy Gradients", of *Curro et al.*;
33. United States Patent No. 5,665,426, issued September 9, 1997, entitled "Soft Treated Tissue", of *Krzysik et al.*;
34. United States Patent No. 5,690,788, issued November 25, 1997, entitled "Biaxially Undulatory Tissue and Creping Process Using Undulatory Blade", of *Marinack et al.*;
35. United States Patent No. 5,695,487, issued December 9, 1997, entitled "Z-Direction Liquid Transport Medium", of *Cohen et al.*;
36. United States Patent No. 5,716,692, issued February 10, 1998, entitled "Lotioned Tissue Paper", of *Warner et al.*;
37. United States Patent No. 5,792,404, issued August 11, 1998, entitled "Method for Forming a Nonwoven Web Exhibiting Surface Energy Gradients and Increased Caliper", of *Cree et al.*;
38. United States Patent No. 5,849,000, issued December 15, 1998, entitled "Absorbent Structure Having Improved Liquid Permeability", of *Anjur et al.*;
39. United States Patent No. 5,851,352, issued December 22, 1998, entitled "Soft Multi-Ply Tissue Paper Having a Surface Deposited Strengthening Agent", of *Vinson et al.*;
40. United States Patent No. 5,851,353, issued December 22, 1998, entitled "Method for Wet Web Molding and Drying", of *Fiscus et al.*;
41. United States Patent No. 5,855,697, issued January 5, 1999, entitled "Magnesium Alloy Having Superior Elevated-Temperature Properties and Die Castability", of *Luo et al.*;
42. United States Patent No. 5,858,173, issued January 12, 1999, entitled "Paper Making Process", of *Propst, Jr.*;
43. United States Patent No. 5,865,955, issued February 2, 1999, entitled "Method and Device for Enhancing the Run of a Paper Web in a Paper Maching", of *Ilvespää et al.*;
44. United States Patent No. 5,891,309, issued April 6, 1999, entitled "Web Stabilizing Device", of *Page et al.*;

45. United States Patent No. 5,932,316, issued August 3, 1999, entitled "Method for Forming a Nonwoven Web Exhibiting Surface Energy Gradients and Increased Caliper", of *Cree et al.*;
46. United States Patent No. 5,968,590, issued October 19, 1999, entitled "Method for Drying a Surface-Treated Paper Web in an After-Dryer of a Paper Machine and After-Dryer of a Paper Machine", of *Ahonen et al.*;
47. United States Patent No. 6,001,421, issued December 14, 1999, entitled "Method for Drying Paper and a Dry End of a Paper Machine", of *Ahonen et al.*;
48. United States Patent No. 6,015,935, issued January 18, 2000, entitled "Absorbent Articles Comprising a Material Having a High Vertical Wicking Capacity", of *LaVon et al.*;
49. United States Patent No. 6,025,049, issued February 15, 2000, entitled "Fluid Transport Webs Exhibiting Surface Energy Gradients", of *Ouellette et al.*;
50. United States Patent No. 6,027,611, issued February 22, 2000, entitled "Facial Tissue With Reduced Moisture Penetration", of *McFarland et al.*;
51. United States Patent No. 6,033,736, issued March 7, 2000, entitled "Aqueous Wax Emulsion as Paint Primer and Paint Repair Adhesive", of *Perlman et al.*;
52. United States Patent No. 6,046,378, issued April 4, 2000, entitled "Wettable Article", of *Quincy, III et al.*;
53. United States Patent No. 6,054,020, issued April 25, 2000, entitled "Soft Absorbent Tissue Products Having Delayed Moisture Penetration", of *Goulet et al.*;
54. United States Patent No. 6,066,379, issued May 23, 2000, entitled "Repulpable, Water Repellant Paperboard", of *Ma et al.*;
55. United States Patent No. 6,074,525, issued June 13, 2000, entitled "Process for Increasing Bulk of Foreshortened Fibrous Web", of *Richards*;
56. United States Patent No. 6,107,539, issued August 22, 2000, entitled Disposable Absorbent Articles Having Reduced Surface Wetness", of *Palumbo et al.*;
57. United States Patent No. 6,119,362, issued September 19, 2000, entitled "Arrangements for Impingement Drying and/or Through-Drying of a Paper or Material Web", of *Sundqvist*;
58. United States Patent No. 6,180,052, issued January 30, 2001, entitled "Fluid Transport Webs Exhibiting Surface Energy Gradients", of *Ouellette et al.*;

59. United States Patent No. 6,187,695, issued February 13, 2001, entitled "Cool Feeling Tissue Product and Method", of *Krzysik et al.*;
60. United States Patent No. 6,231,948, issued May 15, 2001, entitled "Fluid Transport Webs Exhibiting Surface Energy Gradients", of *Ouellette et al.*;
61. United States Patent No. 6,232,521, issued May 15, 2001, entitled "Absorbent Articles Having Fluid Contact Angle Gradients", of *Bewick-Sonntag et al.*;
62. United States Patent No. 6,267,842, issued July 31, 2001, entitled "Water-Based Treatment Agent for Tissue Paper and Tissue Paper Treatment Methods", of *Ishikawa et al.*;
63. United States Patent No. 6,332,952, issued December 25, 2001, entitled "Tissue With Strikethrough Resistance", of *Hsu et al.*;
64. United States Patent No. 6,383,960, issued May 7, 2002, entitled "Layered Absorbent Structure", of *Everett et al.*;
65. United States Patent No. 6,403,858, issued June 11, 2002, entitled "Wettable Article", of *Quincy, III et al.*;
66. United States Patent No. 6,416,628, issued July 9, 2002, entitled "Method of Producing Dimensionally Stable Paper and Paperboard Products", of *Huang et al.*; and
67. United States Patent No. 6,432,267, issued August 13, 2002, entitled "Wet Crepe, Impingement-Air Dry Process for Making Absorbent Sheet", of *Watson.*

Foreign Publications

1. PCT Publication No. WO 00/00698, published January 6, 2000, entitled "Tissue with Strikethrough Resistance", of *Hsu et al.*.

Publications

1. FUNDAMENTALS OF BARRIER PROPERTIES, Stannett, V.T. et al., Department of Chemical Engineering, North Carolina State University, Raleigh, North Carolina. (undated); and
2. SMART MATERIALS FOR LIQUID CONTROL, Non-Wovens World, October-November 1999, Dyrmose-Peterson, pages 95-99.

Respectfully submitted,



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September 21, 2004

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

SEP 29 2004

PATENT & TRADEMARK OFFICE

ATTY DOCKET NO.

2376 (GP-01-24)

APPLICATION NO.

10/702,414

APPLICANT(S)

Phuong V. Luu et al.

FILING DATE

November 6, 2003

GROUP ART UNIT

1731

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		1,682,346	8/28/28	Lorenz			
		3,432,936	3/18/69	Cole et al.	34	6	
		3,546,716	12/15/70	Laumann	4	112	
		3,607,348	9/21/71	Wray et al.	117	38	
		3,612,054	7/31/68	Matsuda et al.	128	287	

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

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							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	3,654,064	4/4/72	Laumann et al.	161	156	
	3,994,771	11/30/76	Morgan et al.	162	113	
	4,102,737	7/25/78	Morton	162	113	
	4,117,199	9/26/78	Gotoh et al.	428	486	
	4,349,610	9/14/82	Parker	428	447	

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		4,468,254	8/28/84	Yokoyama et al.	106	271	
		4,529,480	7/16/85	Trokhann	162	109	
		4,543,156	9/24/85	Cheshire et al.	162	101	
		4,601,938	7/22/86	Deacon et al.	428	153	
		4,786,367	11/22/88	Bogart et al.	162	158	

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		4,789,564	12/6/88	Kanner et al.	427	255.6	
		4,816,320	3/28/89	St. Cyr	428	198	
		4,950,545	8/21/90	Walter et al.	428	446	
		4,987,632	1/29/91	Rowe et al.	15	104.93	
		5,227,242	7/13/93	Walter et al.	428	446	

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		5,399,366	3/21/95	Geddes et al.	426	87	
		5,431,840	7/11/95	Soldanski et al.	252	174.17	
		5,449,551	9/12/95	Taniguchi	428	288	
		5,665,426	9/9/97	Krzysik et al.	427	211	
		5,690,788	11/25/97	Marinack et al.	162	113	

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							YES	NO
		PCT Pub. No. WO 00/00698	1/6/20	PCT	D21H	27/38	✓	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

FUNDAMENTALS OF BARRIER PROPERTIES, Stannett, V.T. et al., Department of Chemical Engineering, North Carolina State University, Raleigh, North Carolina. (undated); and SMART MATERIALS FOR LIQUID CONTROL, Non-Wovens World, October-November 1999, Dyrmose-Peterson, pages 95-99

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	5,695,487	12/9/97	Cohen et al.	604	384	
	5,716,692	2/10/98	Warner et al.	428	153	
	5,792,404	8/11/98	Cree et al.	264	134	
	5,849,000	12/15/98	Anjur et al.	604	367	
	5,851,352	12/22/98	Vinson et al.	162	112	

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	5,851,353	12/22/98	Fiscus et al.	162	113	
	5,855,697	1/5/99	Luo et al.	148	420	
	5,858,173	1/12/99	Propst, Jr.	162	164.1	
	5,865,955	2/2/99	Ilvespaa et al.	162	207	
	5,891,309	4/6/99	Page et al.	162	281	

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	5,968,590	10/19/99	Ahonen et al.	427	209	
	6,001,421	12/14/99	Ahonen et al.	427	316	
	6,015,935	1/18/00	LaVon et al.	604	378	
	6,025,049	2/15/00	Ouellette et al.	428	131	

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		6,033,736	3/7/00	Perlman et al.	427	384	
		6,046,378	4/4/00	Quincy, III et al.	604	375	
		6,054,020	4/25/00	Goulet et al.	162	112	
		6,066,379	5/23/00	Ma et al.	428	53	
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	6,074,525	6/13/00	Richards	162	100	
	6,107,539	8/22/00	Palumbo et al.	604	378	
	6,119,362	9/19/00	Sundqvist	34	120	
	6,180,052	1/30/01	Ouellette et al.	264	504	
	6,187,695	2/13/01	Krzysik et al.	442	62	

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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ATTY DOCKET NO.	APPLICATION NO.
2376 (GP-01-24)	10/702,414
APPLICANT(S)	
Phuong V. Luu et al.	
FILING DATE	GROUP ART UNIT
November 6, 2003	1731

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,267,842	7/31/01	Ishikawa et al.	162	135	
	6,231,948	5/15/01	Ouellette et al.	428	131	
	6,232,521	5/15/01	Bewick-Sonntag et al.	604	378	
	6,332,952	12/25/01	Hsu et al.	162	127	
	6,383,960	5/7/02	Everett et al.	442	394	

U.S. PATENT APPLICATION PUBLICATIONS

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,403,858	6/11/02	Quincy, III et al.	604	375	
		6,416,628	7/9/02	Huang et al.	162	180	
		6,432,267	8/13/02	Watson	162	111	

U.S. PATENT APPLICATION PUBLICATIONS

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		5,510,002	4/23/96	Hermans et al.	162	113	
		5,552,187	9/3/96	Green et al.	427	389.8	
		5,650,945	10/1/96	Geddes et al.	426	87	
		5,585,129	12/17/96	Geddes et al.	426	394	
		5,601,871	2/11/97	Krzysik et al.	427	288	

U.S. PATENT APPLICATION PUBLICATIONS

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U.S. PATENT DOCUMENTS

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		5,609,901	3/11/97	Geddes et al.	426	394	
		5,614,293	3/25/97	Krzysik et al.	428	222	
		5,650,218	7/22/97	Krzysik et al.	428	195	
		5,658,639	8/19/97	Curro et al.	428	131	

U.S. PATENT APPLICATION PUBLICATIONS

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Applicant(s): Phuong V. Luu et al.

Docket No.

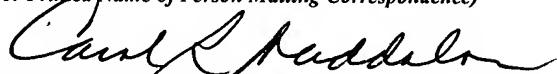
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Application No. 10/702,414	Filing Date November 6, 2003	Examiner UNKNOWN	Customer No. 40256	Group Art Unit 1731
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